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APPENDIX H PROCEDURES FOR USING CHILDREN AND SMALL ADULTS IN SUPPRESSION TESTS

APPENDIX H

PROCEDURES FOR USING CHILDREN AND SMALL ADULTS IN SUPPRESSION TESTS

General Instructions

- 1. The contractor shall provide children and small adults for static suppression tests when directed by the COTR. These children and small adults shall meet the size requirements as specified in the following check sheets.
- 2. The use of children and small adults must conform to NHTSA Order 700-1 and the provisions provided in the contract pursuant to NHTSA Order 700-1.
- 3. The same child or small adult does not need to be used for each static suppression position but there must be a record of which child or small adult is used for each suppression position.
- 4. Since the identity of the child or small adult is not relevant to the test, the child or small adult shall be identified by a unique identification code provided by the contractor. The child or small adult shall be identified by this code on all relevant data sheets and in the test report. The contractor shall keep the records that relate a specific child or small adult to a specific identification code.
- 5. The forms in this Appendix shall be used in lieu of the forms in the main section of the test procedure for any suppression tests requiring use of children or small adults in static suppression tests.

DATA SHEET 16HSuppression Test Using a Representative 3-Year Old Child and Booster Seats (S22)

NHTSA	No Test Date:
Laborat	ory: Test Technician(s):
Booster	Seat Name, Model, and Manufacture Date:
	osition: Full rearward Mid position Full forward (Use a separate sheet for each nree fore-aft positions.)
The	booster seat has NO visible damage. (S22.1.1)
1. Belte 1.1	retracted or deflated adjustment position. (S22.1.7.1)
1.2	N/A – No lumbar adjustment Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S22.1.7.2)
1.3	N/A – No additional support adjustment If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S22.1.7.3) N/A – No independent fore-aft seat cushion adjustment
1.4	If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. N/A – No independent lore-all seat cushion adjustment N/A – No independent seat cushion height adjustment.
1.5.	Put the seat in its full rearward position. N/A - The seat does not have a fore-aft adjustment
1.6	If the seat height is adjustable, put it in the full down position N/A – No seat height adjustment
1.7 1.8	Draw a horizontal reference line on the side of the seat cushion. Using only the controls which change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part
	of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.
1.9	N/A - The seat does not have a fore-aft adjustment. Using only the controls which change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the fore-aft position for this test N/A - The seat does not have a fore-aft adjustment Full rearward
	Mid position. If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:
	Full forward. If the seat must be moved rearward because of booster seat contact with the instrument panel, describe the final location of the seat: N/A – No booster seat contact
	Manual seat adjuster: detent(s) rearward of the forward most position Power seat adjuster: mm between instrument panel and booster seat (max. allowed is 5 mm.)
1.10	If seat adjustments other than fore-aft are present and the reference line is no longer horizontal, use those adjustment to maintain the reference line as closely as possible to the horizontal.

	N/A – No adjustments
	Reference line angle as tested
1.11	If the seat height is adjustable, determine the maximum and minimum heights. (Seat
	height is adjusted in the fore-aft position to be used for the suppression test.) Identify a
	reference point on the vehicle that does not move with respect to the seat. Locate the
	maximum height, the minimum height and the mid height with respect to that reference
	point.
	Set the seat at the mid height position. (S22.1.7.4)
	N/A – No seat height adjustment
	Max. height from the reference point
	Min. height from the reference point.
	Test height from the reference point.
4 40	Describe location of reference point
1.12	The seat back angle, if adjustable, is set at the manufacturer's nominal design riding
	position for a 50th percentile adult male in the manner specified by the manufacturer.
	(S22.1.7.5 and S8.1.3)
	N/A – No seat back angle adjustment
	Manufacturer's design seat back angle
1 12	Tested seat back angle If adjustable, set the head restraint at the full down and full forward position. (S22.1.7.6)
1.13	Any adjustment of the head restraint shall be used to position it full forward. For
	example, if it rotates, rotate it such that the head restraint extends as far forward as
	possible.
	N/A – No head restraint adjustment
1 14	Locate and mark a vertical Plane A through the longitudinal centerline of the booster
'	seat. (S22.2.1.2)
1.15	Is the passenger seat a bucket seat?
	Yes, go to 1.15.1 and skip 1.15.2.
	No, go to 1.15.2 and skip 1.15.1.
	1.15.1 Bucket seats:
	Locate and mark a vertical Plane B through the longitudinal centerline of the
	seat. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is
	determined at the widest part of the seat cushion. Measure perpendicular to the
	longitudinal centerline of the vehicle.
	Record the width of the seat.
	Record the distance from the edge of the seat to Plane B
	1.15.2 Bench seats:
	Locate and mark a vertical Plane B through the right front outboard vehicle seat
	parallel to the vehicle longitudinal centerline the same distance from the
	longitudinal centerline of the vehicle as the center of the steering wheel.
	(S22.2.1.3)
	Record the distance from the longitudinal centerline of the vehicle to the center of
	the steering wheel.
	Decord the distance from the langitudinal contarline of the vehicle to Diana D
	Record the distance from the longitudinal centerline of the vehicle to Plane B.
1 16	Place any adjustable seat belt anchorages at the vehicle manufacturer's nominal design
110	position for a 50th percentile adult male occupant (S22.2.1.6.1)
	N/A – No adjustable upper seat belt anchorage
	Manufacturer's specified anchorage position.
	Tested anchorage position
1.17	Read the booster seat owner's manual for installation instructions
	Place the booster seat in the seat such that Plane A (item 1.14 above) is aligned with
	Plane B (item 1.15 above). (\$22.2.1.4(a)(1))
1.19	While maintaining the booster seat with Plane A aligned with Plane B, secure the booster
	seat by following to the extent possible, the booster seat manufacturer's directions

regarding proper installation of the booster seat. Do NOT use any positioning devices such as towels. (FR 65 30711, footnote 23, 5/12/2000) If the vehicle has FMVSS 225 anchorages, do not attach (\$22.1.3) the booster seat to these anchorages, (\$22.2.1.4(a)) Do NOT attach any tethers. (S22.1.4) 1.20 Is the booster seat designed to be secured to the vehicle seat even when empty? __ Yes - complete item 1.20 No - skip the rest of item 1.20 Place a load cell with a maximum full-scale reading of 225 N (50.6 lb) on a flat, straight section of the lap belt between the booster seat belt path and the contact point with the belt anchor or vehicle seat, on the side away from the buckle (to avoid interference from the shoulder portion of the belt). (\$22.2.1.6.1) Is there a sheath around the seat belt that interferes with the load cell? If yes, cut off all or part of the sheath. All Part 1.21 Cinch the seat belt to a tension load of 130 N \pm 3N (29.2 lb \pm 0.7 lb) (S22.2.1.6.1) Record seat belt tension N/A – The booster seat is not designed to be secured to the vehicle seat even when empty. 1.22 Child Identification Code: 1.23 The child is wearing a cotton T-shirt. (S29.2) 1.24 The child is wearing full-length cotton trousers. (S29.2) 1.25 The child is wearing sneakers. (S29.2) _ (13.4 to18 kg) (S29.1(b) 1.26 Child weight: _ (89 to 99 cm) (S29.1(b)) 1.27 Child height: 1.28 Position the child in the booster seat such that the child's lower torso is centered on the booster seat cushion and the child's back is against the seat back of the booster seat or if there is no booster seat back, the vehicle seat back. Place the arms at the child's sides. (S22.2.1.6.2) 1.29 Attach all belts that come with the booster seat that are appropriate for the child's same height and weight, if any, by following, to the extent possible, the manufacturer's instructions for seating children provided with the booster seat. (S22.2.1.6.3) N/A – No seat belts come with the booster seat. 1.30 Place the Type 2 manual belt around the child and fasten the latch. Remove all slack from the lap belt portion. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. Apply a 9 to 18 N (2 to 4lb) tension load to the lap belt. Allow the excess webbing in the upper torso belt to be retracted by the retractive force of the retractor. (S22.2.1.6.4) N/A – Booster seat belts that come with the booster seat are used to secure the child and the booster seat is secured with the vehicle's seat belt. (See 1.23) 1.31 Start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system, and close all vehicle doors. (S22.2.1.7) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.1.8) Air Bag Suppressed – Pass Air Bag Not Suppressed - FAIL 1.32 Return the ignition switch to the "off" position. Unbelted tests using FMVSS 225 Anchorages with a booster seat. (Booster seats listed in Appendix A, sections D) – Do NOT attach seat belts. (S22.2.1.4 (b)) Do NOT attach any tethers. (S22.1.4(a)) N/A - Vehicle does not have FMVSS 225 anchorages or booster seat does not have FMVSS 213 S5.9 devices to mate to the FMVSS 225 anchorages. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S22.1.7.1) N/A - No lumbar adjustment 2.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S22.1.7.2)

2.3	N/A – No additional support adjustment If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment
	to the full rearward position. (S22.1.7.3)
	N/A – No independent fore-aft seat cushion adjustment
2.4	If the seat cushion height adjusts independent of the seat back, set this adjustment to the
	full down position.
	N/A – No independent seat cushion height adjustment.
2.5	Put the seat in its full rearward position.
	N/A - The seat does not have a fore-aft adjustment
2.6	If the seat height is adjustable, put it in the full down position
	N/A – No seat height adjustment
2.7	Draw a horizontal reference line on the side of the seat cushion
 2.8	Using only the controls which change the seat in the fore-aft direction, mark the fore-aft
	seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power
	seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full
	rearward.
	N/A - The seat does not have a fore-aft adjustment.
2.9	Using only the controls which change the seat in the fore-aft direction, place the seat in
	the full rearward position and then place the seat in the fore-aft position for this test.
	N/A - The seat does not have a fore-aft adjustment.
	Full rearward
	Mid position. If there is no mid position, put the seat in the closest adjustment
	position to the rear of the midpoint. Describe the location of the seat:
	Full forward. If the seat must be moved rearward because of booster seat contact with the instrument panel, describe the final location of the seat:
	N/A – No booster seat contact
	Manual seat adjuster: detent(s) rearward of the forward most position
	Power seat adjuster: mm between instrument panel and booster seat (max.
0.40	allowed is 5 mm.)
2.10	If seat adjustments other than fore-aft are present and the reference line is no longer
	horizontal, use those adjustment to maintain the reference line as closely as possible to
	the horizontal.
	N/A – No adjustments
2 11	Reference line angle as tested If the cost height is adjustable, determine the maximum and minimum heights. (Seet
2.11	If the seat height is adjustable, determine the maximum and minimum heights. (Seat
	height is adjusted in the fore-aft position to be used for the suppression test.) Identify a
	reference point on the vehicle that does not move with respect to the seat. Locate the
	maximum height, the minimum height and the mid height with respect to that reference
	point.
	Set the seat at the mid height position. (S22.1.7.4)
	N/A – No seat height adjustment
	Max. height from the reference point
	Min. height from the reference point
	Test height from the reference point Describe location of reference point
2 12	
2.12	The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.
	(S22.1.7.5 and S8.1.3)
	N/A – No seat back angle adjustment
	Manufacturer's design seat back angle
	Tested seat back angle

2.13	If adjustable, set the head restraint at the full down and full forward position. (S22.1.7.6)
	Any adjustment of the head restraint shall be used to position it full forward. For
	example, if it rotates, rotate it such that the head restraint extends as far forward as
	possible.
	N/A – No head restraint adjustment
2.14	Read the booster seat and vehicle owner's manuals for installation instructions
	Attach the booster seat to the FMVSS 225 anchorages according to the instructions in
	the booster seat and the vehicle owner's manuals. Do NOT attach any tethers.
	(S22.1.4(a)) Do NOT use any positioning devices such as towels. (FR 65 30711,
	footnote 23, 5/12/2000)
2.16	Child Identification Code:
	The child is wearing a cotton T-shirt. (S29.2)
	The child is wearing full-length cotton trousers. (S29.2)
	The child is wearing sneakers. (S29.2)
	Child weight: (13.4 to 18 kg) (S29.1(b)
	Child height: (89 to 99 cm) (\$29.1(b))
	Position the child in the booster seat such that the child's lower torso is centered on the
	booster seat cushion and the child's back is against the seat back of the booster seat or if
	there is no booster seat back, the vehicle seat back. Place the arms at the child's sides.
	(S22.2.1.6.2)
2.23	Attach all belts that come with the booster seat that are appropriate for the child's height
	and weight, if any, by following, to the extent possible, the manufacturer's instructions for
	seating children provided with the booster seat. (S22.2.1.6.3)
2.24	Start the vehicle engine or place the ignition in the "on" position, whichever will turn on
	the suppression system, and close all vehicle doors. (\$22.2.1.7) Wait 10 seconds, and
	then check whether the air bag is suppressed. (S22.2.1.8)
	Air Bag Suppressed – Pass
	Air Bag Not Suppressed – FAIL
2.25	Return the ignition switch to the "off" position.
I certify	that I have read and performed each instruction. Date
_	

DATA SHEET 17H

Suppression Test Using a Representative 3-Year Old Child and Forward Facing Convertible Child Restraints (S22)

NHTSA	A No Test Date:
Labora	tory: Test Technician(s):
Child R	Restraint Name, Model, and Manufacture Date:
	osition: Full rearward Mid position Full forward (Use a separate sheet for each hree fore-aft positions.)
The	forward facing child restraint seat has NO visible damage. (S22.1.1)
1. Belt C)	ed tests with a forward facing child restraint. (Child restraints listed in Appendix A, section
1.1	Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S22.1.7.1) N/A – No lumbar adjustment
1.2	Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S22.1.7.2) N/A – No additional support adjustment
1.3	If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S22.1.7.3)
1.4	N/A – No independent fore-aft seat cushion adjustment If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position.
1.5	N/A – No independent seat cushion height adjustment. Put the seat in its full rearward position. N/A - The seat does not have a fore-aft adjustment
1.6	If the seat height is adjustable, put it in the full down position N/A – No seat height adjustment
1.7	Draw a horizontal reference line on the side of the seat cushion
1.8	Using only the controls which change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.
1.9	 N/A - The seat does not have a fore-aft adjustment. Using only the controls which change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the fore-aft position for this test. N/A - The seat does not have a fore-aft adjustment. Full rearward
	Mid position. If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:
	Full forward. If the seat must be moved rearward because of child restraint contact with the instrument panel, describe the final location of the seat: N/A – No child restraint contact
	Manual seat adjuster: detent(s) rearward of the forward most position Power seat adjuster: mm between instrument panel and child restraint (max. allowed is 5 mm.)

1.10		idjustments other than fore-aft are present and the reference line is no longer tal, use those adjustment to maintain the reference line as closely as possible to zontal.
		– No adjustments
		ice line angle as tested
1.11		eat height is adjustable, determine the maximum and minimum heights. (Seat
		s adjusted in the fore-aft position to be used for the suppression test.) Identify a
		be point on the vehicle that does not move with respect to the seat. Locate the m height, the minimum height and the mid height with respect to that reference
	point.	in neight, the minimum height and the mid height with respect to that reference
	•	seat at the mid height position. (S22.1.7.4)
		- No seat height adjustment
		ight from the reference point.
		ight from the reference point
		ight from the reference point.
		e location of reference point
1.12	The sea	at back angle, if adjustable, is set at the manufacturer's nominal design riding
		for a 50th percentile adult male in the manner specified by the manufacturer.
		7.5 and S8.1.3)
		 No seat back angle adjustment
		cturer's design seat back angle
4.40		seat back angle
1.13		able, set the head restraint at the full down and full forward position. (S22.1.7.6)
		ustment of the head restraint shall be used to position it full forward. For
	possible	e, if it rotates, rotate it such that the head restraint extends as far forward as
	•	– No head restraint adjustment
1 14		and mark a vertical Plane A through the longitudinal centerline of the child
' · · · · ·		t. (S22.2.1.2)
1.15		assenger seat a bucket seat?
		go to 1.15.1 and skip 1.15.2
		o to 1.15.2 and skip 1.15.1.
		Bucket seats:
		Locate and mark a vertical Plane B through the longitudinal centerline of the
		seat. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is
		determined at the widest part of the seat cushion. Measure perpendicular to the
		longitudinal centerline of the vehicle.
		Record the width of the seat.
	1 15 0	Record the distance from the edge of the seat to Plane BBench seats:
	1.15.2	Locate and mark a vertical Plane B through the right front outboard vehicle seat
		parallel to the vehicle longitudinal centerline the same distance from the
		longitudinal centerline of the vehicle as the center of the steering wheel.
		(S22.2.1.3)
		Record the distance from the longitudinal centerline of the vehicle to the center of
		the steering wheel.
		Record the distance from the longitudinal centerline of the vehicle to Plane B.
1 16	Place a	ny adjustable seat belt anchorages at the vehicle manufacturer's nominal design
'.10		for a 50th percentile adult male occupant (S22.2.1.5.1)
		No adjustable upper seat belt anchorage
		cturer's specified anchorage position.
		anchorage position
1.17		e child restraint owner's manual for installation instructions

1.18	Place the child restraint facing forward in the seat such that Plane A (item 1.14 above) is
	aligned with Plane B (item 1.15 above). (S22.2.1.4 (a)(1))
1.19	While maintaining the child restraint position with Plane A aligned with Plane B, secure
	the child restraint by following, to the extent possible, the child restraint manufacturer's
	directions regarding proper installation of the restraint in the forward facing mode. Do
	NOT use any positioning devices such as towels. (FR 65 30711, footnote 23, 5/12/2000)
	If the vehicle has FMVSS 225 anchorages, do not attach (S22.1.3) the child restraint to
	these anchorages. (S22.2.1.4 (a)) Do NOT attach any tethers. (S22.1.4)
1.20	Place a load cell with a maximum full-scale reading of 225 N (50.6 lb) on a flat, straight
	section of the lap belt between the child restraint belt path and the contact point with the
	belt anchor or vehicle seat, on the side away from the buckle (to avoid interference from
	the shoulder portion of the belt). (S22.2.1.5.1)
	Is there a sheath around the seat belt that interferes with the load cell?
	Yes No
	If yes, cut off all or part of the sheath All Part
1.21	Cinch the seat belt to a tension load of 130 N \pm 3N (29.2 lb \pm 0.7 lb) (S22.2.1.5.2)
	Record seat belt tension
1.22	Child Identification Code:
	The child is wearing a cotton T-shirt. (S29.2)
	The child is wearing full-length cotton trousers. (S29.2)
	The child is wearing sneakers. (S29.2)
	Child weight: (13.4 to 18 kg) (S29.1 (b)
	Child height: (89 to 99 cm) (S29.1 (b))
	Position the child in the child restraint such that the child's lower torso is centered on the
	child restraint and the child's spine is against the seat back of the child restraint. Place
	the arms at the child's sides. (S22.2.1.5.2)
1 20	Attach all belts that come with the child restraint that are appropriate for the child's height
1.23	and weight, if any, by following, to the extent possible, the manufacturer's instructions for
	seating children provided with the child restraint. (S22.2.1.5.3)
1 20	Start the vehicle engine or place the ignition in the "on" position, whichever will turn on
1.50	the suppression system, and close all vehicle doors. (S22.2.1.7) Wait 10 seconds, and
	then check whether the air bag is suppressed. (S22.2.1.8)
	Air Bag Suppressed – Pass
1 21	Air Bag Not Suppressed – FAIL Return the ignition switch to the "off" position.
1.51	Return the ignition switch to the on position.
2 Unh	elted tests using FMVSS 225 Anchorages with a forward facing convertible child restraint.
	Id restraints listed in Appendix A, section C) – Do NOT attach seat belts. (S22.2.1.4 (b))
	NOT attach any tethers. (S22.1.4)
DO I	/A - Vehicle does not have FMVSS 225 anchorages or child restraint does not have
IN/	FMVSS 213 S5.9 devices to mate to the FMVSS 225 anchorages.
2.1.	
2.1.	
	retracted or deflated adjustment position. (S22.1.7.1)
0.0	N/A – No lumbar adjustment
2.2.	Position any adjustable parts of the seat that provide additional support so that they are
	in the lowest or most open adjustment position. (S22.1.7.2)
	N/A – No additional support adjustment
2.3.	If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment
	to the full rearward position. (S22.1.7.3)
	N/A – No independent fore-aft seat cushion adjustment
2.4	If the seat cushion height adjusts independent of the seat back, set this adjustment to the
	full down position.
_	N/A – No independent seat cushion height adjustment.
2.5.	
	N/A - the seat does not have a fore-aft adjustment
2.6	If the seat height is adjustable, put it in the full down position

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2.7 2.8	N/A - No seat height adjustment Draw a horizontal reference line on the side of the seat cushion Using only the controls which change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward. N/A - The seat does not have a fore-aft adjustment. Using only the controls which change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the fore-aft position for this test. N/A - The seat does not have a fore-aft adjustment. Full rearwardMid position. If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:
	Full forward. If the seat must be moved rearward because of child restraint contact with the instrument panel, describe the final location of the seat:
	N/A – No child restraint contact
	Manual seat adjuster: detent(s) rearward of the forward most position Power seat adjuster: mm between instrument panel and child restraint (max. allowed is 5 mm.)
2.10	If seat adjustments other than fore-aft are present and the reference line is no longer
	horizontal, use those adjustment to maintain the reference line as closely as possible to
	the horizontal.
	N/A – No adjustments Reference angle as tested
2 11	If the seat height is adjustable, determine the maximum and minimum heights. (Seat
2.11	height is adjusted in the fore-aft position to be used for the suppression test.) Identify a reference point on the vehicle that does not move with respect to the seat. Locate the maximum height, the minimum height and the mid height with respect to that reference
	point. Set the seat at the mid height position. (S22.1.7.4)
	N/A – No seat height adjustment Max. height from the reference point
	Min. height from the reference point.
	Test height from the reference point.
	Describe location of reference point
2.12	The seat back angle, if adjustable, is set at the manufacturer's nominal design riding
	position for a 50th percentile adult male in the manner specified by the manufacturer.
	(S22.1.7.5 and S8.1.3)
	N/A – No seat back angle adjustment Manufacturer's design seat back angle
	Tested seat back angle
2.13	If adjustable, set the head restraint at the full down and full forward position. (S22.1.7.6)
	Any adjustment of the head restraint shall be used to position it full forward. For
	example, if it rotates, rotate it such that the head restraint extends as far forward as
	possible.
2 4 4	N/A – No head restraint adjustment.
	Read the child restraint and vehicle owner's manuals for installation instructions Attach the child restraint, facing forward, to the FMVSS 225 anchorages according to the
2.13	instructions in the child restraint owner's manual and the vehicle owner's manual. Do
	NOT attach any tethers. (S22.1.4) Do NOT use any positioning devices such as towels.
	(FR 65 30711, footnote 23, 5/12/2000)

2.16	Child Identification Code:
2.17	The child is wearing a cotton T-shirt. (S29.2)
2.18	The child is wearing full-length cotton trousers. (S29.2)
2.19	The child is wearing sneakers. (S29.2)
2.20	Child weight: (13.4 to18 kg) (S29.1 (b)
2.21	Child height: (89 to 99 cm) (S29.1 (b))
2.22	Position the child in the child restraint such that the child's lower torso is centered on the
	child restraint and the child's spine is against the seat back of the child restraint. Place
	the arms at the child's sides. (\$22.2.1.5.2)
2.23	Attach all belts that come with the child restraint that are appropriate for the child's height
	and weight, if any, by following, to the extent possible, the manufacturer's instructions for
	seating children provided with the child restraint. (S22.2.1.5.3)
2.24	Start the vehicle engine or place the ignition in the "on" position, whichever will turn on
	the suppression system, and close all vehicle doors. (S22.2.1.7) Wait 10 seconds, and
	then check whether the air bag is suppressed. (S22.2.1.8)
	Air Bag Suppressed – Pass
	Air Bag Not Suppressed – FAIL
2.25	Return the ignition switch to the "off" position.
	·
I certify	that I have read and performed each instruction.
_	

DATA SHEET 18H

NHTSA	Suppression Tests Using a No	In Unbelted Representative 3-Year Old Child
Laborat	tory:	Test Technician(s):
	osition: Full rearward Mid hree fore-aft positions.) (S22.1.2	position Full forward (Use a separate sheet for each
Do NO	T use seat belts for these tests.	S22.2.2)
1. 1.1	retracted or deflated adjustmen	mbar supports so that the lumbar support is in its lowest, position. (S22.1.7.1)
1.2	in the lowest or most open adju	the seat that provide additional support so that they are stment position. (S22.1.7.2)
1.3	N/A – No additional support If the seat cushion adjusts fore to the full rearward position. (S2 N/A – No independent fore-a	and aft, independent of the seat back, set this adjustment 2.1.7.3)
1.4	If the seat cushion height adjus full down position.	s independent of the seat back, set this adjustment to the
1.5	N/A – No independent seat of Put the seat in its full rearward N/A - The seat does not have	position.
1.6	If the seat height is adjustable, N/A – No seat height adjustn	out it in the full down position
1.7 1.8	Draw a horizontal reference line Using only the controls that cha seat positions. Mark the side of the vehicle that does not adjust a time and mark each detent seats, mark only the full rearway positions with the following: F for the seats of the seats	on the side of the seat cushion. nge the seat in the fore-aft direction, mark the fore-aft the seat and a reference position directly below on a part st. For manual seats, move the seat forward one detent as was done for the full rearward position. For power rd, middle, and full forward positions. Label three of the r full forward, M for mid-position (if there is no mid ment position to the rear of the mid-point), and R for full
1.9	N/A - The seat does not have Using only the controls which controls will be controlled to the controls which co	nange the seat in the fore-aft direction, place the seat in en place the seat in the fore-aft position for this test.
1.10	instrument panel, describe the second of the	t be moved rearward because of child contact with the inal location of the seat: etent(s) rearward of the forward most position _ mm between instrument panel and child (max. allowed ore-aft are present and the reference line is no longer to maintain the reference line as closely as possible to

1.11	If the seat height is adjustable, determine the maximum and minimum heights. (Seat
	height is adjusted in the fore-aft position to be used for the suppression test.) Identify a
	reference point on the vehicle that does not move with respect to the seat. Locate the
	maximum height, the minimum height and the mid height with respect to that reference
	point.
	Set the seat at the mid height position. (S22.1.7.4)
	N/A – No seat height adjustment
	Max. height from the reference point
	Min. height from the reference point.
	Test height from the reference point
	Describe location of reference point
1.12	The seat back angle, if adjustable, is set at the manufacturer's nominal design riding
	position for a 50th percentile adult male in the manner specified by the manufacturer.
	(S22.1.7.5 and S8.1.3)
	N/A – No seat back angle adjustment
	Manufacturer's design seat back angle
	Tested seat back angle
1.13	If adjustable, set the head restraint at the full down and full forward position. (S22.1.7.6)
	Any adjustment of the head restraint shall be used to position it full forward. For
	example, if it rotates, rotate it such that the head restraint extends as far forward as
	possible.
	N/A – No head restraint adjustment
1 14	Is the passenger seat a bucket seat?
	Yes, go to 1.14.1 and skip 1.14.2.
	No, go to 1.14.2 and skip 1.14.1.
	1.14.1 Bucket seats:
	Locate and mark a vertical Plane B through the longitudinal centerline of the
	seat. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is
	determined at the widest part of the seat cushion. Measure perpendicular to the
	longitudinal centerline of the vehicle.
	Record the width of the seat.
	Record the distance from the edge of the seat to Plane B
	1.14.2 Bench seats:
	Locate and mark a vertical Plane B through the right front outboard vehicle seat
	parallel to the vehicle longitudinal centerline the same distance from the
	longitudinal centerline of the vehicle as the center of the steering wheel.
	(S22.2.1.3)
	Record the distance from the longitudinal centerline of the vehicle to the center of
	the steering wheel.
	5
	Record the distance from the longitudinal centerline of the vehicle to Plane B.
	Necessary and distance from the foriginal and some for the vertical to Figure 2.
1 15	Child Identification Code:
	The child is wearing a cotton T-shirt. (S29.2)
	The child is wearing full-length cotton trousers. (S29.2)
	The child is wearing sneakers. (S29.2)
1.19	Child weight: (13.4 to 18 kg) (S29.1 (b)
	Child height: (89 to 99 cm) (S29.1 (b))
	Position the child in the seated position and place him/her on the right front outboard
	seat. (S22.2.2.1(a))
1 22	
	Position the child such that its midsagittal plane is coincident with Plane B. (\$22.2.2.1(b))
	Position the child's torso against the seat back. (\$22.2.2.1(b))
	Position the child's thighs against the seat cushion. (S22.2.2.1(b))
1.25	Allow the legs of the child to extend off the surface of the seat. (S22.2.2.1(c))
	If the seat must be moved rearward because of child contact with the instrument panel,
	describe the final location of the seat:

	N/A – No child contact with the instrument panel. Manual seat adjuster: detent(s) rearward of the forward most position (Move the seat the minimum number of detents to eliminate contact with the instrument
	panel.) Power seat adjuster: mm between instrument panel and child restraint (max.
4.00	allowed is 5 mm.)
	Rotate the child's upper arms until they contact the seat back. (S22.2.2.1(d)) Rotate the child's lower arms until the child's hands contact the seat cushion. (S22.2.2.1(e))
1.28	Start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system, and close all vehicle doors. (S22.2.2.1(f)) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.2.1(g)) Air Bag Suppressed – Pass
	Air Bag Not Suppressed – FAIL
1.29	Return the ignition switch to the "off" position.
2. Sitt	ing on seat with back against reclined seat back (S22.2.2.2)
N	I/A – No seat back angle adjustment
2.1	
2.2	Recline the seat back an additional 25 degrees or the closest position that does not exceed 25 degrees. (S22.2.2.2)
	Initial seat back angle
	Final seat back angle
2.3	Verify the child's midsagittal plane is coincident with Plane B. (S22.2.2.1(b))
2.4	Verify the child's torso is against the seat back. (S22.2.2.1(b))
2.5 2.6	Verify the child's thighs are against the seat cushion. (S22.2.2.1(b)) Allow the legs of the child to extend off the surface of the seat. (S22.2.2.1(c))
2.0	If the seat must be moved rearward because of child contact with the instrument panel,
	describe the final location of the seat:
	N/A – No child contact with the instrument panel.
	Manual seat adjuster: detent(s) rearward of the forward most position (Move the seat the minimum number of detents to eliminate contact with the instrument
	panel.) Power seat adjuster: mm between instrument panel and child restraint (max.
	allowed is 5 mm.)
2.7 2.8	Verify the child's upper arms contact the seat back. (S22.2.2.1(d)) Verify the child's hands contact the seat cushion. (S22.2.2.1(e))
2.9	Start the vehicle engine or place the ignition in the "on" position, whichever will turn on
	the suppression system, and close all vehicle doors. (S22.2.2.1(f)) Wait 10 seconds, and
	then check whether the air bag is suppressed. (S22.2.2.1(g))
	Air Bag Suppressed – Pass Air Bag Not Suppressed – FAIL
2.10	Return the ignition switch to the "off" position.
	ng on seat with back not against seat back (S22.2.2.3) Keep the child and the seat in the same position as item 2 above.
3.1 3.2	Incline the seat back to the manufacturer's nominal design riding position for a 50th
0.2	percentile adult male in the manner specified by the manufacturer. (S22.1.7.5 and
	S8.1.3)
	N/A – No seat back angle adjustment
	Manufacturer's design seat back angle
3.3	Tested seat back angle Verify the child's midsagittal plane is coincident with Plane B (item 1.14). (S22.2.2.3(b))
3.3 3.4	Verify the child's torso is against the seat back.
3.5	Verify the child's thighs are against the seat cushion. (S22.2.2.3(c))
36	

3.7	Keeping the spine vertical, move the child fore or aft to position the child's back 25 to 150 mm from the seat back as measured horizontally from the child's midsagittal plane at the mid sternum level. (S22.2.2.3(b))
	Distance measured from seat back (25 to 150 mm)
3.8	Allow the legs of the child to extend off the surface of the seat. (S22.2.2.3(d))
	If the seat must be moved rearward because of child contact with the instrument panel,
	describe the final location of the seat:
	N/A – No child contact with the instrument panel.
	Manual seat adjuster: detent(s) rearward of the forward most position (Move
	the seat the minimum number of detents to eliminate contact with the instrument
	panel.)
	Power seat adjuster: mm between instrument panel and child restraint (max.
0.0	allowed is 5 mm.)
	Position the child's upper arms parallel to the spine. (\$22.2.2.3(e))
	Rotate the child's lower arms until the hands contact the seat cushion. (\$22.2.2.3(e))
3.11	Start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system, and close all vehicle doors. (S22.2.2.3(f)) Wait 10 seconds, and
	then check whether the air bag is suppressed. (S22.2.2.3(g))
	Air Bag Suppressed – Pass
	Air Bag Not Suppressed – FAIL
3.12	Return the ignition switch to the "off" position.
4 Sitt	ing on seat edge, spine vertical, hands by the child's side (S22.2.2.4)
4.1	Keep the seat in the end position used for 3 above.
4.2	Is the passenger seat a bucket seat?
	Yes, go to 4.2.1 and skip 4.2.2.
	No, go to 4.2.2 and skip 4.2.1.
	4.2.1 Bucket seats:
	Locate and mark a vertical Plane B through the longitudinal centerline of the
	seat. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is
	determined at the widest part of the seat cushion. Measure perpendicular to the
	longitudinal centerline of the vehicle. Record the width of the seat.
	Record the width of the seat. Record the distance from the edge of the seat to Plane B
	4.2.2 Bench seats:
	Locate and mark a vertical Plane B through the right front outboard vehicle seat
	parallel to the vehicle longitudinal centerline the same distance from the
	longitudinal centerline of the vehicle as the center of the steering wheel.
	(S22.2.1.3)
	Record the distance from the longitudinal centerline of the vehicle to the center of
	the steering wheel.
	Record the distance from the longitudinal centerline of the vehicle to Plane B.
-4.3	Position the child in the seated position on the right front outboard seat. (S22.2.2.1(a)) Position the child such that its midsagittal plane is coincident with Plane B. (S22.2.2.4(a))
	1 ostaon the smile such that its midsagittal plane is combident with halfe B. (322.2.2.4(a))

4.5	Position the child in the seated position forward in the seat such that the legs are vertical and the back of the legs rest against the front of the seat with the spine vertical. If the child's feet contact the floor pan raising part of the thighs off the seat cushion, rotate the legs forward until the child's thighs are resting on the seat cushion with the feet positioned flat on the floor pan and the child's spine vertical. (S22.2.2.4(b)) If the seat must be moved rearward because of child contact with the instrument panel, describe the final location of the seat: N/A - No child contact with the instrument panel. Manual seat adjuster: detent(s) rearward of the forward most position (Move the seat the minimum number of detents to eliminate contact with the instrument panel.) Power seat adjuster: mm between instrument panel and child restraint (max.
4.6 4.7 4.8	allowed is 5 mm.) Position the child's upper arms parallel to the spine. (S22.2.2.4(c)) Rotate the child's lower arms until the hands contact the seat cushion. (S22.2.2.4(d)) Start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system, and close all vehicle doors. (S22.2.2.4(e)) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.2.4(f)) Air Bag Suppressed = Pass
4.9	Air Bag Not Suppressed – FAIL Return the ignition switch to the "off" position.
5. Sta 5.1 5.2	Keep the seat in the end position used for 4 above. Is the passenger seat a bucket seat? Yes, go to 5.2.1 and skip 5.2.2. No, go to 5.2.2 and skip 5.2.1. 5.2.1 Bucket seats: Locate and mark a vertical Plane B through the longitudinal centerline of the seat. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle. Record the width of the seat. Record the distance from the edge of the seat to Plane B. 5.2.2 Bench seats: Locate and mark a vertical Plane B through the right front outboard vehicle seat parallel to the vehicle longitudinal centerline the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S22.2.1.3) Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel.
	Record the distance from the longitudinal centerline of the vehicle to Plane B.
5.3 5.4 5.5	Position the child in a standing position on the right front outboard seat cushion facing the front of the vehicle with the midsagittal plane coincident with Plane B and with the heels of the child's feet in contact with the seat back. (S22.2.2.5(a)) Rest the child against the seat back, with the arms parallel to the spine. (S22.2.2.5(b)) If the seat back must be reclined because of child contact with the roof, describe the final location of the seat: N/A - No child contact with the roof. Manual seat back recliner: detent(s) rearward of the forward most position (Move the seat the minimum number of detents to eliminate contact with the roof.) Power seat adjuster: mm between roof and child head (max. allowed is 5 mm.)

5.6	Start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system, and close all vehicle doors. (S22.2.2.5(e)) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.2.5(f)) Air Bag Suppressed – Pass
5.7	Air Bag Not Suppressed – FAIL Return the ignition switch to the "off" position.
6. Kno 6.1	eeling on seat facing forward (S22.2.2.6) Keep the seat in the end position used for 5 above with the seat back angle adjustment necessary from 6.2.
6.2	The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.
	(S22.1.7.5 and S8.1.3) N/A – No seat back angle adjustment
	N/A – The seat back angle was not adjusted in 5.5 above.
	Manufacturer's design seat back angle Tested seat back angle
6.3	Is the passenger seat a bucket seat?
	Yes, go to 6.3.1 and skip 6.3.2. No, go to 6.3.2 and skip 6.3.1.
	6.3.1 Bucket seats:
	Locate and mark a vertical Plane B through the longitudinal centerline of the seat. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle. Record the width of the seat.
	Record the distance from the edge of the seat to Plane B.
	6.3.2 Bench seats: Locate and mark a vertical Plane B through the right front outboard vehicle seat parallel to the vehicle longitudinal centerline the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S22.2.1.3)
	Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel.
	Record the distance from the longitudinal centerline of the vehicle to Plane B.
6.4	Position the child in a kneeling position on the right front outboard seat cushion facing the front of the vehicle with the midsagittal plane coincident with Plane B, with the toes at the intersection of the seat back and seat cushion and with the spine vertical. (S22.2.2.6 (a) and (b))
6.5 6.6	Place the arms parallel to the spine. (S22.2.2.6 (b)) Start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system, and close all vehicle doors. (S22.2.2.6 (d)) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.2.6 (e))Air Bag Suppressed – Pass
6.7	Air Bag Not Suppressed – FAIL Return the ignition switch to the "off" position.
7. 7.1 7.2	Kneeling on seat facing rearward (S22.2.2.7) Keep the seat in the end position used for 6 above. Is the passenger seat a bucket seat? Yes, go to 7.2.1 and skip 7.2.2. No, go to 7.2.2 and skip 7.2.1. 7.2.1 Bucket seats:

		Locate and mark a vertical Plane B through the lon seat. (S22.2.1.3) The longitudinal centerline of a budetermined at the widest part of the seat cushion. longitudinal centerline of the vehicle. Record the width of the seat.	ucket seat cushion is
		Record the distance from the edge of the seat to P	lane B.
	7.2.2	Bench seats: Locate and mark a vertical Plane B through the right parallel to the vehicle longitudinal centerline the sa longitudinal centerline of the vehicle as the center of (\$22.2.1.3)	me distance from the of the steering wheel.
		Record the distance from the longitudinal centerline the steering wheel.	e of the vehicle to the center of
		Record the distance from the longitudinal centerline	e of the vehicle to Plane B.
7.3	rear of	on the child in a kneeling position on the right front out fithe vehicle with the midsagittal plane coincident with in contact with the seat back. (S22.2.2.7(a) and (b))	
7.4		the legs so that they contact the seat as much as pos	ssible. (S22.2.2.7(b))
7.5 7.6		the arms parallel to the spine. (S22.2.2.7(b)) the vehicle engine or place the ignition in the "on" pos	sition, whichover will turn on
	the sup	ppression system, and close all vehicle doors. (S22.2.2) nen check whether the air bag is suppressed. (S22.2.2) Bag Suppressed – Pass	2.2.7 (c)) Wait 10 seconds,
		Bag Not Suppressed – FAIL	
7.7		n the ignition switch to the "off" position.	
8 Ivin	a on sea	eat (S22.2.2.8)	
8.1	Does th	the front seat have 3 or more designated seating pose, continue with this section.	itions?
		this form is complete.	
8.2		the seat in the end position used for 7 above.	normandicular to the vahiola's
8.3	longitud (S22.2.	ne child on the right front outboard seat with the spine udinal axis, with the child facing forward and the head 2.2.8(a)(2), & S22.2.2.8(a)(5), and S22.2.2.8(a)(6))	towards the right front door.
8.4	the two	on the child so that the midsagittal plane is horizontal to shoulder joints of the child is vertical. (S22.2.2.8(a)	(1) and S22.2.2.8(a)(4))
8.5 8.6		on the child's arms parallel to the spine. (S22.2.2.8(a) on the child so that he/she is as far back in the seat a	
8.7		on the child so that the topmost point of the child's he	
		e door. (S22.2.2.8(a)(7))	
8.8		e both thighs as much as possible toward the chest of	f the child and rotate the legs
9.0		ich as possible against the thighs. (S22.2.2.8(b)) on the child's upper left arm perpendicular to the long	itudinal contarling of the
8.9	vehicle	e and rotate the lower left arm about the elbow joint a novement is obstructed. (S22.2.2.8(c))	
8.10		the vehicle engine or place the ignition in the "on" pos	sition, whichever will turn on
		appression system, and close all vehicle doors. (S22.2	
		nen check whether the air bag is suppressed. (S22.2.2	2.8(e))
		Bag Suppressed – Pass Bag Not Suppressed – FAIL	
8.11		n the ignition switch to the "off" position.	
		. and ignition content to the one position.	
Logrtify	that I h	nave read and performed each instruction.	Date
ı u c ılliy	uiatiili	iave read and performed each instruction.	Date

DATA SHEET 19H
Suppression Test Using a Representative 6-Year-Old Child and
Booster Seats (S24.2.1)

NHISA	No Test Date:
Laborato	ory: Test Technician(s):
Booster	Seat Name, Model, Manufacture Date:
	sition: Full rearward Mid position Full forward (Use a separate sheet for each ree fore-aft positions.)
The b	pooster seat has NO visible damage. (S24.1.1)
1.1	d tests with a booster seat. (Booster seats listed in Appendix A, section D, S24.1.1)) Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S22.1.7.1) N/A – No lumbar adjustment
	Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S22.1.7.2) N/A – No additional support adjustment
	If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S22.1.7.3) N/A – No independent fore-aft seat cushion adjustment
	If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. N/A – No independent seat cushion height adjustment.
1.5.	Put the seat in its full rearward position N/A - The seat does not have a fore-aft adjustment
1.6	If the seat height is adjustable, put it in the full down position N/A – No seat height adjustment
1.8	Draw a horizontal reference line on the side of the seat cushion. Using only the controls which change the seat in the fore-aft direction, mark the fore-aft
	seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward. N/A - The seat does not have a fore-aft adjustment.
	Using only the controls which change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the fore-aft position for this test. N/A - The seat does not have a fore-aft adjustment. Full rearward
	Mid position. If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:
	Full forward. If the seat must be moved rearward because of booster seat contact with the instrument panel, describe the final location of the seat: N/A – No booster seat contact Manual seat adjuster: detent(s) rearward of the forward most position Power seat adjuster: mm between instrument panel and booster seat (max. allowed is 5 mm.)

1.10	If seat adjustments other than fore-aft are present and the reference line is no longer horizontal, use those adjustment to maintain the reference line as closely as possible to the horizontal.
	N/A – No adjustments
4 4 4	Reference angle as tested
'''	If the seat height is adjustable, determine the maximum and minimum heights. (Seat height is adjusted in the fore-aft position to be used for the suppression test.) Identify a reference point on the vehicle that does not move with respect to the seat. Locate the maximum height, the minimum height and the mid height with respect to that reference
	point.
	Set the seat at the mid height position. (S22.1.7.4)
	N/A – No seat height adjustment
	Max. height from the reference point
	Min. height from the reference point
	Test height from the reference point
4.40	Describe location of reference point
1.12	The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S24.1.2 and S8.1.3)
	N/A – No seat back angle adjustment
	Manufacturer's design seat back angle
	Tested seat back angle
1.13	If adjustable, set the head restraint at the full down and full forward position. (S22.1.7.6)
	Any adjustment of the head restraint shall be used to position it full forward. For
	example, if it rotates, rotate it such that the head restraint extends as far forward as
	possible.
1 11	N/A – No head restraint adjustment Locate and mark a vertical Plane A through the longitudinal centerline of the booster
1.14	seat. (S22.2.1.2)
1.15	Is the passenger seat a bucket seat?
	Yes, go to 1.15.1 and skip 1.15.2.
	No, go to 1.15.2 and skip 1.15.1.
	1.15.1 Bucket seats:
	Locate and mark a vertical Plane B through the longitudinal centerline of the
	seat. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is
	determined at the widest part of the seat cushion. Measure perpendicular to the
	longitudinal centerline of the vehicle. Record the width of the seat.
	Record the width of the seat. Record the distance from the edge of the seat to Plane B
	1.15.2 Bench seats:
	Locate and mark a vertical Plane B through the right front outboard vehicle seat
	parallel to the vehicle longitudinal centerline the same distance from the
	longitudinal centerline of the vehicle as the center of the steering wheel.
	(S22.2.1.3)
	Record the distance from the longitudinal centerline of the vehicle to the center of
	the steering wheel.
	Record the distance from the longitudinal centerline of the vehicle to Plane B.
1.16	Place any adjustable seat belt anchorages at the vehicle manufacturer's nominal design
	position for a 50th percentile adult male occupant (S22.2.1.6.1)
	N/A – No adjustable upper seat belt anchorage
	Manufacturer's specified anchorage position.
	Tested anchorage position
1.17	Read the booster seat owner's manual for installation instructions

1.18	Place the booster seat in the seat such that Plane A (item 1.15 above) is aligned with Plane B (item 1.16 above). (S22.2.1.4(a)(1))
1 10	While maintaining the booster seat with Plane A aligned with Plane B, secure the booster
1.13	seat by following, to the extent possible, the booster seat manufacturer's directions
	regarding proper installation of the booster seat. Do NOT use any positioning devices
	such as towels. (FR 65 30711, footnote 23, 5/12/2000) If the vehicle has FMVSS 225
	anchorages, do not attach (S22.1.3) the booster seat to these anchorages. (S22.2.1.4(a))
	Do NOT attach any tethers. (S24.1.4)
1.20	Is the booster seat designed to be secured to the vehicle seat even when empty when
	used for a child the same height and weight as the six year-old child (45 in (114 cm), 51.6
	lb (23.4 kg))?
	Yes – complete item 1.20
	No – skip the rest of item 1.20
	Place a load cell with a maximum full-scale reading of 225 N (50.6 lb) on a flat, straight
	section of the lap belt between the booster seat belt path and the contact point with the
	belt anchor or vehicle seat, on the side away from the buckle (to avoid interference from
	the shoulder portion of the belt). (S22.2.1.6.1)
	Is there a sheath around the seat belt that interferes with the load cell?
	Yes No
4.04	If yes, cut off all or part of the sheath. — All — Part Circle the cost held to a tension lead of 130 N + 3N (30 3 lb + 0.7 lb) (633 3 4 6 4)
1.21	Cinch the seat belt to a tension load of 130 N \pm 3N (29.2 lb \pm 0.7 lb) (S22.2.1.6.1)
	Record seat belt tension N/A – The booster seat is not designed to be secured to the vehicle seat even when
	empty when used for a child the same height and weight as the 6 year-old child (45 in
	(114 cm), 51.6 lb (23.4 kg)).
1.22	Child Identification Code:
	The child is wearing a cotton T-shirt. (S29.2)
	The child is wearing full-length cotton trousers. (S29.2)
	The child is wearing sneakers. (S29.2)
	Child weight: (21 to25.6 kg) (S29.1 (c)
	Child height: (114 to 124.5 cm) (S29.1 (c))
1.28	Position the child in the booster seat such that the child's lower torso is centered on the
	booster seat cushion and the child's back is against the seat back of the booster seat or if
	there is no booster seat back, the vehicle seat back. Place the arms at the child's sides.
1 20	(S22.2.1.6.2) Attach all belts that come with the booster seat that are appropriate for the child's height
1.29	and weight, if any, by following, to the extent possible, the manufacturer's instructions for
	seating children provided with the booster seat. (S22.2.1.6.3)
	N/A – No seat belts come with the booster seat.
	N/A – Seat belts that come with the booster seat are not applicable to a child this size
	and weight (45 in (114 cm), 51.6 lb (23.4 kg))
1.30	Place the Type 2 manual belt around the child and fasten the latch. Remove all slack
	from the lap belt portion. Pull the upper torso webbing out of the retractor and allow it to
	retract; repeat this four times. Apply a 9 to 18 N (2 to 4lb) tension load to the lap belt.
	Allow the excess webbing in the upper torso belt to be retracted by the retractive force of
	the retractor. (S22.2.1.6.4)
	N/A – Booster seat belts that come with the booster seat are used to secure the child
	and the booster seat is secured with the vehicle's seat belt.
1.31	Start the vehicle engine or place the ignition in the "on" position, whichever will turn on
	the suppression system, and close all vehicle doors. (S22.2.1.7) Wait 10 seconds, and
	then check whether the air bag is suppressed. (S22.2.1.8)
	Air Bag Suppressed – Pass Air Bag Not Suppressed – FAIL
1 32	Return the ignition switch to the "off" position.
1.52	Retain the ignition switch to the on position.

App	elted tests using FMVSS 225 Anchorages with a booster seat. (Booster seats listed in endix A, sections D) – Do NOT attach seat belts. (S24.1.3) Do NOT attach any tethers. 4.1.4)
•	/A - Vehicle does not have FMVSS 225 anchorages or booster seat does not have FMVSS 213 S5.9 devices to mate to the FMVSS 225 anchorages.
2.1	Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S22.1.7.1)
2.2	N/A – No lumbar adjustment Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S22.1.7.2)
2.3	N/A – No additional support adjustment If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S22.1.7.3)
2.4	N/A – No independent fore-aft seat cushion adjustment If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position.
2.5	 N/A – No independent seat cushion height adjustment. Put the seat in its full rearward position. N/A - The seat does not have a fore-aft adjustment
2.6	If the seat height is adjustable, put it in the full down position N/A – No seat height adjustment
2.7 2.8	Draw a horizontal reference line on the side of the seat cushion. Using only the controls which change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part
2.9	of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward. N/A - The seat does not have a fore-aft adjustment. Using only the controls which change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the fore-aft position for this test. N/A - The seat does not have a fore-aft adjustment. Full rearward Mid position. If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:
2.10	Full forward. If the seat must be moved rearward because of booster seat contact with the instrument panel, describe the final location of the seat: N/A – No booster seat contact Manual seat adjuster: detent(s) rearward of the forward most position Power seat adjuster: mm between instrument panel and booster seat (max. allowed is 5 mm.) If seat adjustments other than fore-aft are present and the reference line is no longer horizontal, use those adjustment to maintain the reference line as closely as possible to the horizontal. N/A – No adjustments Reference line angle as tested

2.11	If the seat height is adjustable, determine the maximum and minimum heights. (Seat
	height is adjusted in the fore-aft position to be used for the suppression test.) Identify a
	reference point on the vehicle that does not move with respect to the seat. Locate the
	maximum height, the minimum height and the mid height with respect to that reference
	point.
	Set the seat at the mid height position. (S22.1.7.4)
	N/A – No seat height adjustment
	Max. height from the reference point
	Min. height from the reference point
	Test height from the reference point
	Describe location of reference point
2.12	The seat back angle, if adjustable, is set at the manufacturer's nominal design riding
	position for a 50th percentile adult male in the manner specified by the manufacturer.
	(S24.1.2 and S8.1.3)
	N/A – No seat back angle adjustment
	Manufacturer's design seat back angle
	Tested seat back angle
2.13	If adjustable, set the head restraint at the full down and full forward position. (S22.1.7.6)
	Any adjustment of the head restraint shall be used to position it full forward. For
	example, if it rotates, rotate it such that the head restraint extends as far forward as
	possible.
	N/A – No head restraint adjustment
2.14	Read the booster seat and vehicle owner's manuals for installation instructions
	Attach the booster seat to the FMVSS 225 anchorages according to the instructions in
	the booster seat and the vehicle owner's manuals. Do NOT attach any tethers. (S22.1.4)
	Do NOT use any positioning devices such as towels. (FR 65 30711, footnote 23,
	5/12/2000)
2.16	Child Identification Code:
	The child is wearing a cotton T-shirt. (S29.2)
	The child is wearing full-length cotton trousers. (S29.2)
	The child is wearing sneakers. (S29.2)
	Child weight: (21 to25.6 kg) (S29.1 (c)
	Child height: (114 to 124.5 cm) (S29.1 (c))
	Position the child in the booster seat such that the child's lower torso is centered on the
	booster seat cushion and the child's back is against the seat back of the booster seat or if
	there is no booster seat back the vehicle seat back. Place the arms at the child's sides.
	(S22.2.1.6.2)
2.23	Attach all belts that come with the booster seat that are appropriate for the child's height
	and weight, if any, by following, to the extent possible, the manufacturer's instructions for
	seating children provided with the booster seat. (S22.2.1.6.3)
	N/A – No seat belts come with the booster seat.
	N/A – Seat belts that come with the booster seat are not applicable to a child this
	height and weight (45 in (114 cm), 51.6 lb (23.4 kg))
2.24	Start the vehicle engine or place the ignition in the "on" position, whichever will turn on
	the suppression system, and close all vehicle doors. (S22.2.1.7) Wait 10 seconds, and
	then check whether the air bag is suppressed. (S22.2.1.8)
	Air Bag Suppressed – Pass
	Air Bag Not Suppressed – FAIL
2.25	Return the ignition switch to the "off" position.
	The second secon
Lcertify	that I have read and performed each instruction Date

DATA SHEET 20HSuppression Tests Using an Unbelted Representative 6-Year-Old Child (S24.2.1)

NHTSA	No Test Date:
Labora	tory: Test Technician(s):
	osition: Full rearward Mid position Full forward (Use a separate sheet for each hree fore-aft positions.) (S24.1.2)
Do NO	T use seat belts for these tests. (S22.2.2)
1. 1.1	Sitting on seat with back against seat back (S22.2.2.1) Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S22.1.7.1) N/A – No lumbar adjustment
1.2	Position any adjustment Position any adjustment of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S22.1.7.2) N/A – No additional support adjustment
1.3	If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S22.1.7.3)
1.4	N/A – No independent fore-aft seat cushion adjustment If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position.
1.5	N/A – No independent seat cushion height adjustment. Put the seat in its full rearward position. N/A - The seat does not have a fore-aft adjustment
1.6	If the seat height is adjustable, put it in the full down position N/A – No seat height adjustment
1.7 1.8	Draw a horizontal reference line on the side of the seat cushion. Using only the controls which change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward. N/A - The seat does not have a fore-aft adjustment.
1.9	Using only the controls which change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the fore-aft position for this test. (S22.1.2) N/A - The seat does not have a fore-aft adjustment. Full rearward Mid position. If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:
	Full forward. If the seat must be moved rearward because of child contact with the instrument panel, describe the final location of the seat: N/A – No child contact Manual seat adjuster: detent(s) rearward of the forward most position Power seat adjuster: mm between instrument panel and child (max. allowed is 5 mm.)

1.10	If seat adjustments other than fore-aft are present and the reference line is no longer horizontal, use those adjustment to maintain the reference line as closely as possible to the horizontal.
	N/A – No adjustments
1 11	Reference line angle as tested If the cost height is adjustable determine the maximum and minimum heights. (Seet
'.''	If the seat height is adjustable, determine the maximum and minimum heights. (Seat height is adjusted in the fore-aft position to be used for the suppression test.) Identify a
	reference point on the vehicle that does not move with respect to the seat. Locate the
	maximum height, the minimum height and the mid height with respect to that reference
	point.
	Set the seat at the mid height position. (S24.1.2)
	N/A – No seat height adjustment
	Max. height from the reference point
	Min. height from the reference point.
	Test height from the reference point.
4.40	Describe location of reference point
1.12	The seat back angle, if adjustable, is set at the manufacturer's nominal design riding
	position for a 50th percentile adult male in the manner specified by the manufacturer.
	(S24.1.2 and S8.1.3) N/A – No seat back angle adjustment
	Manufacturer's design seat back angle
	Tested seat back angle
1.13	If adjustable, set the head restraint at the full down and full forward position. (\$22.1.7.6)
	Any adjustment of the head restraint shall be used to position it full forward. For
	example, if it rotates, rotate it such that the head restraint extends as far forward as
	possible.
	N/A – No head restraint adjustment
1.14	Is the passenger seat a bucket seat?
	Yes, go to 1.14.1 and skip 1.14.2.
	No, go to 1.14.2 and skip 1.14.1.
	1.14.1 Bucket seats: Locate and mark a vertical Plane B through the longitudinal centerline of the
	seat. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is
	determined at the widest part of the seat cushion. Measure perpendicular to the
	longitudinal centerline of the vehicle.
	Record the width of the seat.
	Record the distance from the edge of the seat to Plane B
	1.14.2 Bench seats:
	Locate and mark a vertical Plane B through the right front outboard vehicle seat
	parallel to the vehicle longitudinal centerline the same distance from the
	longitudinal centerline of the vehicle as the center of the steering wheel.
	(\$22.2.1.3) Record the distance from the longitudinal centerline of the vehicle to the center of
	the steering wheel.
	the deciming whool.
	Record the distance from the longitudinal centerline of the vehicle to Plane B.
1.15	Position the child in the seated position and place it on the right front outboard seat.
	(S22.2.2.1(a))
	Position the child such that its midsagittal plane is coincident with Plane B. (S22.2.2.1(b))
	Position the child's torso against the seat back. (S22.2.2.1(b))
	Position the child's thighs against the seat cushion. (\$22.2.2.1(b))
1.19	Allow the legs of the child to extend off the surface of the seat. (S22.2.2.1(c)) If the seat must be moved rearward because of child contact with the instrument panel,
	describe the final location of the seat:
	N/A – No child contact with the instrument panel.

	Manual seat adjuster: detent(s) rearward of the forward most position (Move the seat the minimum number of detents to eliminate contact with the instrument
	panel.) Power seat adjuster: mm between instrument panel and child restraint (max. allowed is 5 mm.)
	Rotate the child's upper arms until they contact the seat back. (S22.2.2.1(d)) Rotate the child's lower arms until the child's hands contact the seat cushion.
1.22	(\$22.2.2.1(e)) Start the vehicle engine or place the ignition in the "on" position, whichever will turn on
	the suppression system, and close all vehicle doors. (S22.2.2.1(f)) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.2.1(g)) Air Bag Suppressed – Pass
	Air Bag Not Suppressed – FAIL
1.23	Return the ignition switch to the "off" position.
2.	Sitting on seat with back against reclined seat back (S22.2.2.2) N/A – No seat back angle adjustment
2.1 2.2	Keep the child and the seat in the same position as item 1 above. Recline the seat back an additional 25 degrees or the closest position that does not
	exceed 25 degrees. (S22.2.2.2) Initial seat back angle
	Final seat back angle
	Verify the child's midsagittal plane is coincident with Plane B. (S22.2.2.1(b))
	Verify the child's torso is against the seat back. (S22.2.2.1(b)) Verify the child's thighs are against the seat cushion. (S22.2.2.1(b))
	Allow the legs of the child to extend off the surface of the seat. (S22.2.2.1(c))
	If the seat must be moved rearward because of child contact with the instrument panel, describe the final location of the seat:
	N/A – No child contact with the instrument panel.
	Manual seat adjuster: detent(s) rearward of the forward most position (Move the seat the minimum number of detents to eliminate contact with the instrument
	panel.) Power seat adjuster: mm between instrument panel and child restraint (max. allowed is 5 mm.)
2.7	Verify the child's upper arms contact the seat back. (S22.2.2.1(d))
2.8 2.9	Verify the child's hands contact the seat cushion. (S22.2.2.1(e)) Start the vehicle engine or place the ignition in the "on" position, whichever will turn on
2.9	the suppression system, and close all vehicle doors. (S22.2.2.1(f)) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.2.1(g))
	Air Bag Suppressed – Pass
	Air Bag Not Suppressed – FAIL
2.10	Return the ignition switch to the "off" position.
3.	Sitting on seat edge, spine vertical, hands by the child's side (S22.2.2.4)
3.1	Keep the seat in the end position used for 1 above.
3.2	Incline the seat back to the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S22.1.7.5 and S8.1.3)
	N/A – No seat back angle adjustment
	Manufacturer's design seat back angle
	Tested seat back angle
3.3	Is the passenger seat a bucket seat?
	Yes, go to 3.3.1 and skip 3.3.2.
	No, go to 3.3.2 and skip 3.3.1.

	3.3.1	Bucket seats: Locate and mark a vertical Plane B through the longitudinal centerline of the seat. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle. Record the width of the seat.			
		Record the distance from the edge of the seat to Plane B.			
	3.3.2	Bench seats: Locate and mark a vertical Plane B through the right front outboard vehicle seat parallel to the vehicle longitudinal centerline the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S22.2.1.3)			
		Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel.			
		Record the distance from the longitudinal centerline of the vehicle to Plane B.			
3.4	Position the child in the seated position and place him/her on the right front outbeseat. (S22.2.2.1(a))				
3.5 3.6	Position the child such that its midsagittal plane is coincident with Plane B. (S22.2.2.4(a) Position the child in the seated position forward in the seat such that the legs are vertical and the back of the legs rest against the front of the seat with the spine vertical. If the child's feet contact the floor pan raising part of the thighs off the seat cushion, rotate the legs forward until the child's thighs are resting on the seat cushion with the feet positioned flat on the floor pan and the child's spine vertical. (S22.2.2.4(b)) If the seat must be moved rearward because of child contact with the instrument panel, describe the final location of the seat: N/A - No child contact with the instrument panel. Manual seat adjuster: detent(s) rearward of the forward most position (Move the seat the minimum number of detents to eliminate contact with the instrument panel.) Power seat adjuster: mm between instrument panel and child restraint (max				
3.7 3.8 3.9	allowed is 5 mm.) Position the child's upper arms parallel to the spine. (S22.2.2.4(c)) Rotate the child's lower arms until the hands contact the seat cushion. (S22.2.2.4(d)) Start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system, and close all vehicle doors. (S22.2.2.4(e)) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.2.4(f)) Air Bag Suppressed – PassAir Bag Not Suppressed – FAIL				
3.10		the ignition switch to the "off" position.			
4. 4.1 4.2	Keep the ls the p	back in the seat and leaning on the right front passenger door (S24.2.3) he seat in the end position used for 2 above. hassenger seat a bucket seat? go to 4.2.1 and skip 4.2.2. go to 4.2.2 and skip 4.2.1. Bucket seats: Locate and mark a vertical Plane B through the longitudinal centerline of the seat. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle. Record the width of the seat.			
		Record the distance from the edge of the seat to Plane B			

Date

4.2.2	Bench seats:			
	Locate and mark a vertical Plane B through the right front outboard vehicle seat			
	parallel to the vehicle longitudinal centerline the same distance from the			
	longitudinal centerline of the vehicle as the center of the steering wheel.			
	(S22.2.1.3)			
	Record the distance from the longitudinal centerline of the vehicle to the center of			

the steering wheel. Record the distance from the longitudinal centerline of the vehicle to Plane B. 4.3 Position the child in the seated position and place him/her on the right front outboard seat. (S24.2.3 (a)) Position the child such that its midsagittal plane is coincident with Plane B. (\$24.2.3(a)) 4.5 Position the child's back against the seat back and thighs on the seat cushion. (S24.2.3(b))4.6 Allow the legs and feet to extend off the surface of the seat. If this positioning of the child's legs is prevented by contact with the instrument panel, move the seat rearward. (S24.2.3(c)) If the seat must be moved rearward because of child contact with the instrument panel, describe the final location of the seat: N/A – No child contact with the instrument panel. Manual seat adjuster: ___ detent(s) rearward of the forward most position (Move the seat the minimum number of detents to eliminate contact with the instrument panel.) Power seat adjuster: mm between instrument panel and child restraint (max. allowed is 5 mm.) 4.7 Rotate the child's upper arms toward the seat back until they make contact. (\$24.2.3(d)) 4.8 Rotate the child's lower arms down until they contact the seat. (S24.2.3(e)) 4.9 Close the vehicle's passenger-side door and then start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system. (S24.2.3(f)) 4.10 Push against the child's left shoulder to lean the child against the door; close all remaining doors. (S24.2.3(g)) 4.11 Wait 10 seconds, and then check whether the air bag is suppressed. (S24.2.3(h)) Air Bag Suppressed – Pass Air Bag Not Suppressed - FAIL _4.11 Return the ignition switch to the "off" position.

I certify that I have read and performed each instruction.

DATA SHEET 25HTest of Reactivation of the Passenger Air Bag System with an Unbelted Representative 5th Percentile Female (S20.3, 22.3, S24.3)

NHTSA	No Test Date:
Laborat	tory: Test Technician(s):
	osition: Full rearward Mid position Full forward (Use a separate sheet for each nree fore-aft positions tested.) (S20.3.1, 22.3.1, S24.3.1)
Do NO	Γ use seat belts for these tests.
_	This reactivation test is being performed after the following suppression test: Suppression Test Using 12-Month-Old CRABI Dummy (S20) After section of the data sheet Suppression Test Using Newborn Infant Dummy (S20) After section of the data sheet Suppression Test Using 3-Year-Old Dummy and Booster Seats (S22) After section of the data sheet Suppression Test Using 3-Year-Old Dummy and Forward Facing Convertible Child Restraints (S22) After section of the data sheet Suppression Test Using an Unbelted 3-Year-Old Dummy (S22) After section of the data sheet Suppression Test Using 6 Year-Old-Dummy and Booster Seats (S24.2.1) After section of the data sheet
	Suppression Test Using 6 Year-Old-Dummy (S24.2.1) After section of the data sheet
2. 3.	Leave the seat in the position used for the suppression test. (The seat back is not reclined as it would be for positioning for a crash test.) Human Identification Code:
	The human is wearing a cotton T-shirt. (S29.2) The human is wearing full-length cotton trousers. (S29.2) The human is wearing sneakers. (S29.2) Human weight:
10.	Verify the human's midsagittal plane is vertical and coincident with the seating position centerline. (\$16.3.3.1.3 or \$16.3.3.1.4)
11.	Verify the transverse distance between the centers of the front of the knees is 160 to 170 mm (6.3 to 6.7 inches). Center the knee separation with respect to the seat centerline. (S16.3.3.1.6) Record Knee Separation mm
12.	If needed, extend the legs until the feet do not contact the floor pan. The thighs are
13.	resting on the seat cushion. (S16.3.3.1.8) If the human contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position which does not cause human contact. (S16.3.3.1.8) N/A No contact Human contact. Clearance set at maximum of 5mm Measured Clearance mm Human Contact. Seat set at nearest detent position. Seat position detent positions rearward of full forward
14.	(full forward is position zero) Passenger foot positioning. (Indicate final position achieved) (S16.3.3.2)

	14.1 Place feet flat on the toe board. OR	
	14.2 If the feet cannot be placed flat on the toe board, the fee	•
	lower leg, and the heel is as far forward as possible and resting of	•
	14.3 If the heels do not touch the floor pan, the legs are vertice	cal and the feet parallel to
	the floor pan	
15.	5 ,	
	15.1 Place the human's upper arms adjacent to the torso with	the arm centerlines as
	close to a vertical longitudinal plane as possible. (\$16.3.2.3.1)	
	15.2 Place the palms of the human in contact with the outer p (\$16.3.3.3.2)	art of the thighs
	15.3 Place the little fingers in contact with the seat cushion. (\$	316 3 3 3 3)
16	Start the vehicle engine or place the ignition in the "on" position,	•
	the suppression system, and close all vehicle doors. (S22.2.1.7)	
	then check whether the air bag is suppressed. (S22.2.1.8)	, , , , , , , , , , , , , , , , , , , ,
	Air Bag Suppressed – FAIL	
	Air Bag Not Suppressed – Pass	
17.	Return the ignition switch to the "off" position.	
I certify	that I have read and performed each instruction.	Date
- ,		